

REMARKS

Applicant appreciates the Examiner's thorough consideration provided the present application. Claims 1-12 are now present in the application. Claims 1-9 and 12 have been amended. Claims 13-16 have been withdrawn and hereby cancelled. Claim 1 is independent. Reconsideration of this application, as amended, is respectfully requested.

Claim Objections

Claims 8 and 9 have been objected to due to the presence of minor informalities. In view of the foregoing amendments, in which the Examiner's helpful suggestions have been followed, it is respectfully submitted that this objection has been addressed. Reconsideration and withdrawal of this objection are respectfully requested.

Claim Rejections Under 35 U.S.C. §112

Claims 3-5, 7 and 12 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. This rejection is respectfully traversed.

In view of the foregoing amendments, it is respectfully submitted that this objection has been addressed. Accordingly, all pending claims are now definite and clear. Reconsideration and withdrawal of the rejection under 35 U.S.C. § 112, second paragraph, are therefore respectfully requested.

Claim Rejections Under 35 U.S.C. § 103

Claims 1-3 and 5-12 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Wang, U.S. Patent No. 6,135,838, in view of the “Titanium dioxide photocatalysis”, and further in view of Taoda, U.S. Patent No. 5,670,206. Claim 4 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Wang in view of the “Titanium dioxide photocatalysis” and Taoda, and further in view of Yamada, U.S. Patent No. 5,897,958. Claim 11 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Wang in view of the “Titanium dioxide photocatalysis” and Taoda, and further in view of Ichikawa, U.S. Patent No. 6,024,929. These rejections are respectfully traversed.

In light of the foregoing amendments, Applicant respectfully submits that these rejections have been obviated and/or rendered moot. As the Examiner will note, independent claim 1 has been amended to recite a combination of steps including “formulating a photocatalyst anatase TiO₂ sol mixture and dip coating a glass fiber cloth or glass fiber sleeve with said photocatalyst anatase TiO₂ sol mixture, wherein the photocatalyst anatase TiO₂ sol mixture comprises nano crystalline of Anatase TiO₂ particles; (2) drying said photocatalyst sol coated glass fiber cloth or glass fiber sleeve into a nano-crystalline-photocatalyst-coated glass fiber cloth or glass fiber sleeve; (3) impregnating said photocatalyst-coated glass fiber cloth or glass fiber sleeve with a solution of an oxidation catalyst comprising precious metals or transition metal-oxides; (4) drying again said impregnated photocatalyst-coated glass fiber cloth or glass fiber sleeve; (5) tailoring the photocatalyst sol coated glass fiber cloth or glass fiber sleeve obtained from step (2) or said impregnated photocatalyst-coated glass fiber cloth or glass fiber sleeve from step (4) to a fluorescent lamp tube and encompassing at least a portion of said fluorescent lamp tube with said

photocatalyst-coated glass fiber cloth or glass fiber sleeve; and (6) using UV resistant glue, thermal plastic ring belt, sewing, or laser sintering techniques to fix said photocatalyst-coated glass fiber cloth or glass fiber sleeve on said fluorescent lamp tube, wherein said nano-crystalline-photocatalyst-coated glass fiber cloth or glass fiber sleeve is excited by UV or visible light to produce photocatalytic interaction.” Applicant respectfully submits that the above combination of steps as set forth in amended independent claim 1 is not disclosed nor suggested by the references relied on by the Examiner.

As recited in claim 1, the claimed invention is directed to a process for preparing nano crystalline photocatalyst anatase TiO₂, and the nano-sized photocatalyst can be excited by UV or visible light to produce photocatalytic interaction.

Wang discloses a method for fabricating a UV lamp based on solgel coating techniques by coating a sol of photocatalytic materials to growth the anatasse TiO₂ with high temperature baking as the main component. Although Wang discloses that a photocatalyst is excited by UV light, Wang nowhere discloses preparing nano crystalline photocatalyst. Therefore, Wang fails to teach “formulating a photocatalyst anatase TiO₂ sol mixture and only by dipping and drying steps in order to coat a glass fiber cloth or glass fiber sleeve with said photocatalyst anatase TiO₂ sol mixture, wherein the photocatalyst anatase TiO₂ sol mixture comprises nano crystalline of anatase TiO₂ particles” and “said nano-crystalline-photocatalyst-coated glass fiber cloth or glass fiber sleeve is excited by UV or visible light to produce photocatalytic interaction” as recited in claim 1.

With regard to the Examiner's reliance on the secondary references, these references also fail to disclose the above combination of steps as set forth in amended independent claim 1. Accordingly, these references fail to cure the deficiencies of Wang.

Accordingly, none of the references utilized by the Examiner individually or in combination teach or suggest the limitations of amended independent claim 1 or its dependent claims. Therefore, Applicant respectfully submits that all of the claims clearly define over the teachings of the references relied on by the Examiner.

Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. § 103 are respectfully requested.

CONCLUSION

Since the remaining patents cited by the Examiner have not been utilized to reject the claims, but merely to show the state of the prior art, no further comments are necessary with respect thereto.

It is believed that a full and complete response has been made to the Office Action, and that as such, the Examiner is respectfully requested to send the application to Issue.

In the event there are any matters remaining in this application, the Examiner is invited to contact Cheng-Kang Hsu (Greg), Registration No. 61,007 at (703) 205-8000 in the Washington, D.C. area.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), Applicant respectfully petitions for a one (1) month extension of time for filing a response in connection with the present application.

Application No. 10/757,463
Amendment dated February 29, 2008
Reply to Office Action of October 30, 2007

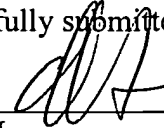
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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

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